

AT15-13 Cast 1; TowCam#1- Seafloor Geology & Biology/ Preliminary Observations
25 Nov 2006 (GMT)

TIME (GMT) Brief Shipboard Observations

7:49:32 lobate lava collapse; new lava? (appears glassy)
7:49:42 lobate lava collapse; crabs
7:50:12 lobate collapse; new lava? Some sedimentation; line seems to be caught
7:51:12 lobate collapse withing newer looking lava; collapse greenish
7:53:42 contact; newer lobate with older lobate
7:53:52 contact
7:55:42 end of contact
7:56:02 lobate lava collapse; newer lava
7:57:32 large area of lobate collapse
8:01:02 end of lobate collapse; transition into very thin glassy lobate; crabs
8:03:02 contact; new lobate flow with older lobate
8:06:22 last frame of contact with new lobate and older lobate
8:07:22 lots of crabs on new flow surface
8:09:22 collapse in new lobate flow
8:11:02 more collapse in new lobate flow
8:11:52 extensive area of collapse in new lobate flow begins; lots of crabs
8:13:32 end of extensive collapse area
8:13:52 microbial settlement
8:14:52 thick microbial mat and crabs; lobate collapse
8:15:05 beginning of extensive collapse area; microbial mat extends along the bo
8:16:32 cloudy water, thick microbial mat
 *note from tow log: small temp anomaly occurred at 8:16:27; about 0.10
8:18:32 last frame of extensive microbial mat
8:18:52 new lobate flow; still along edge of collapse; no more microbial mat
8:22:32 new lobate flow and collapse structures
8:35:12 lava pillars that have fallen over? (white rings)
8:39:42 thin layer of new lobate
8:40:02 thin layer of new lobate and collapse
8:40:42 shrimp
8:42:22 extensive collapse of new layer lobate flow
8:43:42 looking into large collapse area; lava pillar
8:47:52 collapse transitions to lineated sheet flow
8:48:12 collapse sheet flow
8:48:42 transitions back to lobate collapse
8:51:02 lava pillars
9:00:22 end of extensive collapse; more solid thin lobate flow
9:14:32 contact; new lobate over older lobate flow
9:18:32 contact: new lobate flow with collapse over older lobate
9:19:43 contact ends; newer lobate flow
9:23:23 extensive collapse in new lobate flow; lots of crabs
9:27:03 end of extensive collapse
9:35:33 extensive collapse begins again
9:55:03 begins transition from lobate (with collapse) to sheet flow
10:03:03 folded sheet flow

10:07:23 beginning of extensive collapse in sheet flow
10:10:03 still extensive collapse area, but top has transitioned to lobate flow
10:19:33 transitions back to ropey sheet flow
10:21:13 lineated sheet flow
10:24:13 back to lobate flow
10:36:33 sheet flow
10:39:33 lobate flow; collapse
10:45:13 sheet flow
10:51:03 transitions back to lobate collapse
10:54:33 transition back to lineated sheet flow
10:56:23 ropey sheet flow
11:00:43 lineated sheet flow
11:03:33 folded sheet flow
11:05:33 ropey sheet flow
11:08:13 lineated sheet flow
11:11:03 transitions back to ropey
11:15:43 back to lobate collapse
11:18:13 lineated sheet flow
11:19:33 ropey sheet flow
11:35:53 lobate flow
11:48:13 contact; new lobate over older lobate flow
11:49:23 last frame of contact
11:49:33 older lobate flow with sedimentation

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on frame

oundary of collapse

degrees

